

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S3	2992	(shift   raise   lower ) near (band! adj gap   bandgap)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/05/31 17:25
S4	5	S2 & S3	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/05/31 17:25
S5	2	us-20070160099-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/05/31 17:29
S6	4	(bandgap   band adj gap) near10 (cumulative   additive) near3 shift	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/05/31 17:48
S7	4	("5071786"   "6027989").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/10 09:56
S8	2	("5395793").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/10 09:56
S9	1212626	silicon adj dioxide   "sio.sub.2"   silica!   silicon adj oxide	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/10 10:02

S10	35465	impurity near6 (sulphur   zinc   fluorine   copper   germanium   tin   selenium)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/10 10:03
S11	591	S9 near8 S10	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/10 10:05
S12	2998	(shift   raise   lower ) near (band! adj gap   bandgap)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/10 10:05
S13	13	S11 & (S12   quantum adj well)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/10 10:05
S14	25	("20040038503"   "20080069169"   "4148045"   "4829347"   "4875216"   "5021361"   "5283448"   "5527732"   "5071786"   "5395793"   "6309904"   "7223623").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/10 10:08
S15	6	S7   S8	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/10 10:10
S16	1	kr-2001036949-\$.did.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/10 12:20
S18	3	dielectric adj cap adj2 quantum adj well adj disordering   DQQWD. u/c.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/10 13:13

S19	67	impurity adj free adj vacancy adj diffusion   ifvd.u/c.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/10 13:14
S20	3	S18 & S19	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/10 14:32
S22	1058	quantum adj well near (intermixing   enhanc \$4   tun\$4   disorder\$4   band adj gap )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/10 14:39
S23	1061	quantum adj well near (intermixing   enhanc \$4   tun\$4   disorder\$4   band adj gap   multiple adj wavelength)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/10 14:40
S24	485	S23 & (anneal   thermal )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/10 14:41
S26	1090	quantum adj well near (intermix\$4   enhanc\$4   tun\$4   disorder\$4   multiple adj wavelength   band adj gap )	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/10 14:42
S27	489	S26 & (anneal   thermal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/10 14:42
S28	23	S26 & (second   additional   multiple) near2 (anneal   thermal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/10 14:43

S29	562	S26 & (anneal\$3   thermal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/10 14:45
S30	44	S26 & (second   additional   multiple) near2 (anneal\$3   thermal)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/10 14:45
S31	54	method near3 researching.clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/15 17:52
S32	6	(multiple   cummulative   additive   suc\$1es\$1ive) near3 (bandgap   band! adj gap) adj shift	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/16 14:06
S33	5	S32 & (symmetric   asymmetric)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/16 14:07
S34	32	(multiple   cummulative   additive   suc\$1es\$1ive) same (bandgap   band! adj gap) adj shift	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/16 14:08
S35	2	(symmetric   asymmetric) with (bandgap   band! adj gap) adj shift	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/16 14:08
S36	72652	bandgap   band! adj gap	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/16 14:09

S37	817	S36 near4 (shift)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/16 14:09
S38	236	S37 & (symmetric   symmetry   asymmetric   asymmetry)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/16 14:10
S39	83	S38 & second near6 S36	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/16 14:10
S40	1028	438/47.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/16 16:06
S41	428	S40 & @py<"2004"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/16 16:06
S42	600	S40 not S41	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/16 16:06
S43	153	((JOHN) near2 (MARSH)).INV.	US-PGPUB; USPAT	AND	ON	2010/06/16 16:08
S44	3	((DAN) near2 (YANSON)).INV.	US-PGPUB; USPAT	AND	ON	2010/06/16 16:09
S45	10	((STEWART) near2 (MCDUGALL)).INV.	US-PGPUB; USPAT; USOCR	AND	ON	2010/06/16 16:09
S46	4667	multi adj quantum adj well	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 11:55

S47	3	S46 near5 pixel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 11:55
S49	114	vertical adj cavity & photonic adj components	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 11:58
S50	16	S49 & pixel	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 11:59
S51	0	pixel same encapsulant adj between	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 12:01
S52	0	pixel same encapsulant near2 adjacent	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 12:01
S53	308	encapsulant near2 adjacent	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 12:01
S54	6059	separat\$3 adj pixels	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 12:01
S55	361	separat\$3 adj adjacent adj pixels	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 12:01

S56	401	light adj emitting & ingaas & multiple adj wavelenghts	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 13:24
S57	172	S56 & quantum adj well	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 13:24
S58	16	S57 & third adj region	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 13:25
S59	1	"7,739,139".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 13:33
S60	1290	sputter near3 (silicon adj (dioxide   oxide)   silica   "sio.sub.2")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 15:18
S61	18	S60 & quantum adj well & light adj emitt\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 15:18
S62	1913	lift adj off & quantum adj well & light adj emitt\$4	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 15:27
S63	564	S62 & photoresist	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 15:27

S64	2546	photoresist near8 lift adj off	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 15:30
S65	24399	pattern\$4 near4 ("sio. sub.2"   silicon adj (dioxide   oxide)   silica)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 15:31
S66	35	S64 same S65	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 15:31
S67	3774	etch\$3 near8 lift adj off	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 15:35
S68	216	S67 near7 (alternativ\$3   either)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 15:35
S69	3032	pattern\$4 near4 ("sio. sub.2"   silicon adj (dioxide   oxide)   silica) near8 photoresist	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 15:41
S70	6	S69 near8 lift adj off	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 15:41
S71	134	encapsulating near5 pixels	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 15:52



S72	37	adjacent adj pixels near3 insulated	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2010/06/17 16:00
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**EAST Search History (Interference)**

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